AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1 - 154. (canceled)

155. (currently amended): A self-compensating dynamic balancer apparatus for a disk player which records and reproduces information from a disk installed on said disk player, said apparatus comprising:

a self-compensating dynamic balancer comprising:

a non-magnetic hollow tube; and

a mobile unit which comprises at least one rigid body and is disposed within said nonmagnetic hollow tube,

wherein said self-compensation dynamic balancer is locatable coaxial with a rotation axis about which said disk is rotated by rotational components of said disk player,

wherein said self-compensation dynamic balancer rotates in use with at least one of rotational components, and

wherein said mobile unit is arranged to be freely movable within said non-magnetic hollow tube by centrifugal force generated by rotation of said disk such that the center of gravity of said self-compensating dynamic balancer moves to be located opposite to the center of gravity

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of said disk with respect to said rotation axis when an angular frequency of the disk is greater than a natural frequency of a deck plate of the disk player.

wherein the natural frequency of the deck plate is determined by an elastic modulus of buffering members of the disk player and mass of the deck plate and other elements to be installed on the deck plate, and represents a rate of vibration in a horizontal direction, and

wherein the self-compensating dynamic balancer is mounted to at least one among members which are rotated by the rotational force provided by a spindle motor, and the center of gravity of said self-compensating dynamic balancer is located opposite to that of said disk with respect to a rotational shaft of said spindle motor by a centrifugal force generated during rotation of said disk, thereby to compensate for vibrations due to an eccentric center of gravity of said disk.

- 156. (previously presented): An apparatus as claimed in claim 155, wherein said mobile unit further comprises a fluid capable of moving within said tube.
- 157. (previously presented): An apparatus as claimed in claim 156, wherein said fluid is arranged to coat said at least one rigid body to reduce friction between said at least one rigid body and said hollow tube.
- 158. (previously presented): An apparatus as claimed in claim 155, wherein said tube is formed of a body having a race in which said mobile unit is disposed and a cover member which covers said race by coupling to said body.

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159. (withdrawn): An apparatus as claimed in claim 155, comprising at least two

circular tubes which are arranged to be concentric and adjacent to each other and have mobile

units located in the respective tubes.

160. (withdrawn): An apparatus as claimed in claim 159, wherein, when there is more

than one tube, the weights of said rigid bodies located in the respective tubes differ from each

other.

161. (previously presented): An apparatus as claimed in claim 155, wherein said rigid

body is formed into a shape selected from the group consisting of a spherical body which can roll

inside said race, a cylindrical body which can roll with the outer circumferential surface thereof

contacting the inner surface of the outer circular wall of said race, a truncated conic body which

can roll with the outer circumferential surface thereof contacting the bottom surface of said race,

and a fan-shaped block which can slide being in contact with the bottom surface or the outer

circular wall of said race.

162. (previously presented): An apparatus as claimed in claim 155, wherein said rigid

body is formed of a non-magnetic material in order to avoid being influenced by a magnetic

force.

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163. (previously presented): An apparatus as claimed in claim 162, wherein said rigid body is formed of a substance selected from the group consisting of tungsten carbide (WC), beryllium steel (CuBe), Hastelloy C-276, silicon nitride (Si3N4), zirconia (ZrO2), brass, aluminum, austenite-series steel YHD50, a non-magnetic metal such as SUS300, SUS304 and SUS316, ceramic and a synthetic resin.

- 164. (previously presented): An apparatus as claimed in claim 155, wherein said rigid body is formed of a non-oxidizing substance which does not corrode.
- 165. (previously presented): An apparatus as claimed in claim 164, wherein said rigid body is formed of a substance selected from the group consisting of SUS300, ceramic and a synthetic resin.
- 166. (previously presented): An apparatus as claimed in claim 155, wherein the outer circumferential surface of said rigid body is anti-oxidation coated.
- 167. (previously presented): An apparatus as claimed in claim 166, wherein said antioxidation coating is formed of one selected from the group consisting of zinc and nickelchromium plated over a base material of carbon steel or chromium steel.
- 168. (previously presented): An apparatus as claimed in claim 156, wherein said fluid comprises part of said mobile unit capable of moving in said tube such that the center of gravity

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thereof is located opposite to that of said disk with respect to said rotation axis by a centrifugal force generated during rotation of said tube.

169. (previously presented): An apparatus as claimed in claim 155, wherein the cross section of said tube enclosing said mobile unit has a shape selected from the group consisting of a rectangular shape, an oval shape having a longer axis in the latitudinal direction with respect to the rotation shaft, and an inwardly bulging polygonal shape in which a portion of each side contacting said mobile unit bulges inward.

170. (previously presented): An apparatus as claimed in claim 155, wherein said tube enclosing said mobile unit is formed of a substance selected from the group consisting of tungsten carbide (WC), beryllium steel (CuBe), Hastelloy C-276, silicon nitride (Si3N4), zirconia (ZrO2), brass, aluminum, austenite-series steel YHD50, a non-magnetic metal such as SUS300, SUS304 and SUS316, ceramic and synthetic resin.

171. (previously presented): An apparatus as claimed in claim 155, wherein said tube enclosing said mobile unit is formed of a non-oxidizing substance which does not corrode.

172. (previously presented): An apparatus as claimed in claim 171, wherein said tube enclosing said mobile unit is formed of a substance selected from the group consisting of SUS300, ceramic and a synthetic resin.

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173. (previously presented): An apparatus as claimed in claim 155, wherein the surface of said tube facing said mobile unit is anti-oxidation coated.

174. (previously presented): An apparatus as claimed in claim 173, wherein said anti-oxidation coating is formed of one selected from the group consisting of zinc and nickel-chromium plated over a base material of carbon steel or chromium steel.

175. (withdrawn): An apparatus as claimed in claim 155, comprising a support plate and at least one pivoting plate pivotably coupled to said support plate.

176. (previously presented): An apparatus as claimed in claim 155, wherein said self-compensating dynamic balancer is formed integrally with a turntable.

177. (canceled)